

Title (en)
Solar panel system

Title (de)
Solarzellensystem

Title (fr)
Système de panneau solaire

Publication
EP 2495509 B1 20141112 (EN)

Application
EP 11009219 A 20111121

Priority
US 41684110 P 20101124

Abstract (en)
[origin: US2012125399A1] A solar panel assembly having a foundation tube, a rotary actuator mounted in the foundation tube for changing the azimuth of the panel and a linear actuator mounted to the foundation tube for controlling the elevation angle of the panel. The linear actuator utilizes a spindle drive. The rotary actuator includes a motor and gearbox; a drive screw connected to the motor; a spindle screw, one end of which provides an output of the rotary actuator; a drive nut having a first threaded hole for receiving a thread of the drive screw and a second threaded hole for receiving a thread of the spindle screw, the guide nut having a guide fin; and a guide rail interacting with the nut guide fin to constrain the nut from rotating, whereby the rotation of the drive by screw by operation of the motor causes the nut to translate linearly which in turn causes the spindle screw to rotate.

IPC 8 full level
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Cited by
EP2767730A1; WO2016009236A1

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